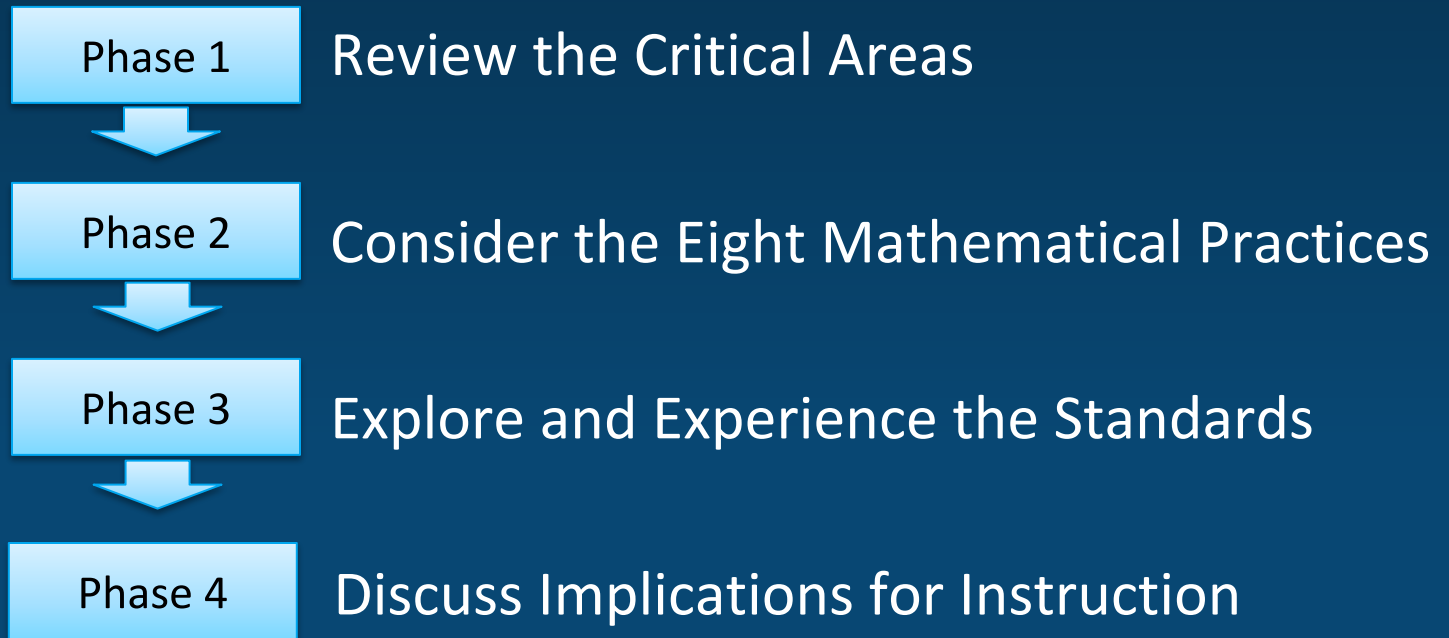


Application of the Algebra I Standards in the 21st Century Classroom



Agenda



NJSLA - Algebra I Overview

Algebra I Overview

Numerals in parentheses designate individual content standards that are eligible for assessment in whole or in part. Underlined numerals (e.g., 1) indicate standards eligible for assessment on two or more end-of-course assessments. For more information, see Tables 1 and 2. Course emphases are indicated by: ■ Major Content; □ Supporting Content; ● Additional Content. Not all CCSSM content standards in a listed domain or cluster are assessed.

The Real Number System (N-RN)

- Use properties of rational and irrational numbers (3)

Quantities★(N-Q)

- Reason quantitatively and use units to solve problems (1, 2, 3)

Seeing Structure in Expressions (A-SSE)

- Interpret the structure of expressions (1, 2)
- Write expressions in equivalent forms to solve problems (3)

Arithmetic with Polynomials and Rational Expressions (A-APR)

- Perform arithmetic operations on polynomials (1)
- Understand the relationship between zeros and factors of polynomials (3)

Creating Equations★ (A-CED)

- Create equations that describe numbers or relationships (1, 2, 3, 4)

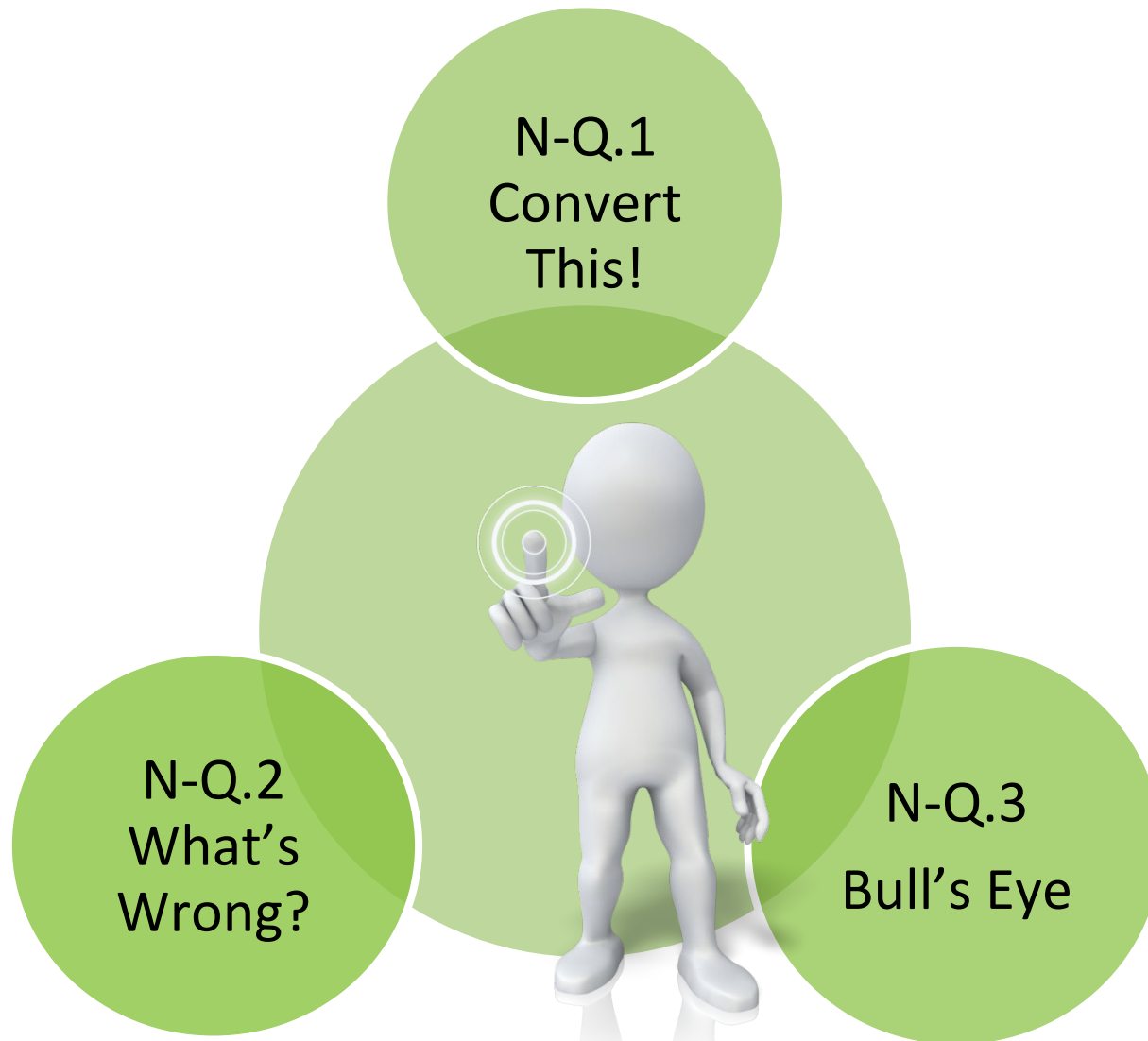
Reasoning with Equations and Inequalities (A-REI)

- Understand solving equations as a process of reasoning and explain the reasoning (1)
- Solve equations and inequalities in one variable (3, 4)
- Solve systems of equations (5, 6)
- Represent and solve equations and inequalities graphically (10, 11, 12)

Mathematical Practices

1. Make sense of problems and persevere in solving them.
2. Reason abstractly and quantitatively.
3. Construct viable arguments and critique the reasoning of others.
4. Model with mathematics.
5. Use appropriate tools strategically.
6. Attend to precision.
7. Look for and make use of structure.
8. Look for and express regularity in repeated reasoning.

Let's Explore the Standards



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